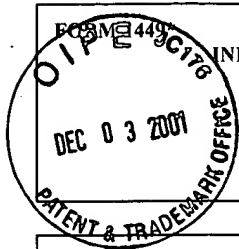


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## INFORMATION DISCLOSURE STATEMENT

IN AN APPLICATION

(Use several sheets if necessary)

Docket Number:

NREL01-35

Application Number:

09/917,378

Applicant: Shi-You Ding, et al.

Filing Date: July 28, 2001

Group Art Unit: 1645

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## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NO. | DATE       | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|--------------|------------|----------------|-------|----------|-------------------------------|
| mm2                 | 5,110,735    | 5/5/1992   | Tucker et al.  | —     | —        | 9/26/1989                     |
|                     | 5,366,884    | 11/22/1994 | Adney et al.   | —     | —        | 9/21/1993                     |
|                     | 5,432,075    | 7/11/1995  | Himmel et al.  | —     | —        | 7/15/1994                     |
|                     | 5,514,584    | 5/7/1996   | Lastick et al. | —     | —        | 6/27/1994                     |
|                     | 5,536,655    | 7/16/1996  | Thomas et al.  | —     | —        | 7/15/1994                     |
|                     | 5,712,142    | 1/27/1998  | Adney et al.   | —     | —        | 2/22/1996                     |
|                     | 6,013,860    | 1/11/2000  | Himmel et al.  | —     | —        | 7/24/1998                     |
| mm2                 | 6,126,698    | 10/03/2000 | Liu et al.     | —     | —        | 12/17/1998                    |
|                     |              |            |                |       |          |                               |
|                     |              |            |                |       |          |                               |
|                     |              |            |                |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  | DOCUMENT NO. | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION |    |
|--|--------------|------|---------|-------|----------|-------------|----|
|  |              |      |         |       |          | YES         | NO |
|  |              |      |         |       |          |             |    |
|  |              |      |         |       |          |             |    |
|  |              |      |         |       |          |             |    |
|  |              |      |         |       |          |             |    |
|  |              |      |         |       |          |             |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|     |      |  |
|-----|------|--|
| mm2 | 1993 | Al-Sulami, A. A., et al. "Purification and Properties of Cellulases from a Local Isolate of <i>Cellulomonas flavigena</i> ." <i>Dirasat</i> , Vol. 19B, No. 4 (1992), pp 139-55 (Univ. Jordan).      |
| mm2 | 1995 | Baker, J. O., et al. "Synergism Between Purified Bacterial and Fungal Cellulases." <i>Enzymatic Degredation of Insoluble Carbohydrates</i> , Am. Chem. Society Symp. Ser. Vol. 618 (1995) pp 113-41. |
|     |      |  |

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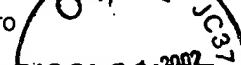
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| EXAMINER  | mm2 | DATE CONSIDERED | 1/7/03 |
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| Substitute for form 1449A/PTO<br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                  |
|   |   |    |   | Applicant Number         | 09/917,378       |
|  |   |    |   | Filing Date              | July 28, 2001    |
|  |   |    |   | First Named Inventor     | Shi-You Ding     |
|  |   |    |   | Group Art Unit           | 1645             |
|  |   |    |   | Examiner Name            | Not yet Accorded |
| Sheet  | 1 | of | 2 | Attorney Docket Number   | NREL 01-35       |

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|                       |   |                    |        |
|-----------------------|---|--------------------|--------|
| Examiner<br>Signature |  | Date<br>Considered | 1/2/03 |
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<sup>1</sup>Unique citation designation number.<sup>2</sup>See attached Kinds of U.S. Patent Documents.<sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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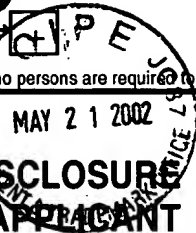
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Sheet 2 of 2

## Complete if Known

|                        |                  |
|------------------------|------------------|
| Applicati n Number     | 09/917,378       |
| Filing Date            | July 28, 2001    |
| First Named Inventor   | Shi-You Ding     |
| Group Art Unit         | 1645             |
| Examiner Name          | Not Yet Accorded |
| Attorney Docket Number | NREL IR # 01-35  |

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## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite NO.¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  | T² |
|--------------------|-----------|--|----|
| mm                 | 1         | A. Sunna, et al., "A Gene Encoding a Novel Multidomain Beta-1, 4-Mannanase from Caldicoccus cellulosivorans and Action of the Recombinant Enzyme on Kraft Pulp," Applied and Environmental Microbiology, Vol. 66, No. 2, February 2000, pp. 664-670, XP002192691 |    |
|                    | 2         | Seikagaku Kogyo Co Ltd., "New Endo-Beta-Mannosidases isolated from Liliaceae Plants-Useful for Analysis of Sugar Chain Structure," Derwent Publication Ltd., Sec. Ch, Week 200022, London, GB, Blass B04 AN 2000-249670, XP002192693.                            |    |
|                    | 3         | Tucker, M. et al., "Ultra-Thermostable Cellulases from Acidothermus: Comparison of Temperature Optima with Previously Reported Cellulases," Bio/Technology, Vol. 7, August 1989, pp 817-820.   |    |
|                    | 4         | Thomas, S. et al., "Gene Coding for the E1 Endoglucanase," PCT International Patent Application No. PCT/US95/08868, 1 February 1996, WO 96/2551A1.   |    |
| mm                 | 5         | Bylina, E.J. et al., "Glycosidase Enzymes," PCT International Patent Application No. PCT/US97/00092, 17 July 1997, WO 97/25417.  |    |
|                    | 6         | PCT International Search Report, PCT/US01/23819, 28 July 2001.   |    |
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